

## Internship in e-Drive, Charging & Energy Systems department at group SEAT S.A. (SEAT & CUPRA) in Martorell (Barcelona), Spain



SEAT S.A. is the only company that designs, develops, manufactures, and distributes cars in Spain. The multinational company, based in Martorell (Barcelona), is part of the Volkswagen Group and distributes vehicles of the CUPRA and SEAT brands. The company employs more than 15,000 people and has three production centers: Barcelona, El Prat de Llobregat, and Martorell.

### Your tasks:

- Be a part of the Energy Storage Systems development team
- Participate in the development of an Energy Storage System. Mechanical, electrical, thermal development, and if you're up for it, even in assembly and commissioning
- Simulate the performance (aging, Depth of Discharge, temperature, State of Charge) of an Energy Storage System integrated into a real electrical grid while charging electric vehicles
- Develop algorithms for the rapid detection of the State of Health (SOH) of lithium-ion batteries
- Taking on independent activities from the day-to-day business of e-drive development
- Programming new functionalities and documentation of the existing and new code
- Optimization of the existing code
- Support the preparation of product decision documents

### Your qualifications:

- Enrolled in an engineering degree program, preferably automotive or energy engineering, as well as informatics engineering
- Experience using Matlab/Simulink /Python/Excel VBA
- Previous programming skills
- Passion for automobiles, electromobility, energy systems and batteries
- Independent and structured way of working
- Fluency in German and English, as well as intermediate-level proficiency in Spanish, is desirable
- Best if you can allocate at least 6 months for this

### What we offer you:

- Option to write a student research project/final thesis afterwards, if the university supports this
- Free meals & free bus transport from Barcelona and major cities around to Martorell
- Full-time (8:00 h to 16:35 h, 35 min break), partially home office is possible
- An exciting field of activity as well as an innovative and friendly team

**Have we sparked your interest? Then send us your application to:**

[sergi.graciano@seat.es](mailto:sergi.graciano@seat.es) / [kai.dannehl@seat.es](mailto:kai.dannehl@seat.es)